Serial No. 10/067,294

Docket No: Q68446

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (currently amended) A heat developing apparatus in which a heat developing sheet on

which a latent image is formed by the exposure, and is heated to the developing temperature

through a preliminary heating means section before the sheet is developed by a developing

section, characterized in that:

the preliminary heating means section has a plurality of rotating body pairs for nipping the

heat developing sheet and for heating-conveying it to the developing temperature; and

the rotating body pairs are arranged so that the conveying direction of the heat developing

sheet is changed by at least one pair of rotating body pair in the plurality of rotating body pairs.

2. (currently amended) A heat developing apparatus in which a heat developing sheet on

which a latent image is formed by the exposure and is heated to the developing temperature

through a preliminary heating meanssection before the sheet is developed by a developing

section, characterized in that:

the preliminary heating means section has a plurality of rotating body pairs for nipping the

heat developing sheet and for heating-conveying it to the developing temperature;

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the rotating body pairs are arranged so that the conveying direction of the heat developing

sheet is changed by at least one pair of rotating body pair in the plurality of rotating body pairs;

and

after the heat developing sheet is brought into contact with theone rotating body of one of

the rotating pairs the from the tangential line direction of a point on an outer periphery of the one

rotating body-constituting the rotating body pairs, the heat developing sheet is nipped.

3. (currently amended) A heat developing apparatus according to Claims 1 or 2, wherein

respective changes of the conveying direction of the heat developing sheet at the plurality

of rotating body pairs are is changed in the same rotating direction around the axial center of at

nip points of each of the one rotating body which is respectively arranged in the same manner in

the respective rotating body pairs.

4. (currently amended) A heat developing apparatus according to Claims 1 or 2, wherein

each of the plurality of rotating body pairs are structured by two rollers, and at least one

roller of the two rollers is a heating roller in which the heating means is provided; and

arrangement, interval and temperature of the heating rollers are set so as to have thea

temperature difference by which the heat developing processing quality deterioration due to the

heat deformation of the heat developing sheet is not generated.

5. (original) A heat developing apparatus according to Claim 4, wherein

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the heating roller comprises a thick-wall metallic pipe,

heat source portion arranged on the axis center of the metallic pipe, and

a plurality of members whose heat conductivity is greater than the metallic pipe, are

buried at an equal interval in the peripheral direction of the wall thickness portion of the metallic

pipe.

6. (original) A heat developing apparatus according to claims 1 or 2, wherein

the rotating body surface material of the plurality of rotating body pairs which is brought

into contact with the surface on which a material forming a latent image of the heat developing

sheet is coated, is formed of silicon rubber, and

the heat developing sheet is deformed and conveyed in the same rotation direction as the

rotation body around the axis center of the rotating body structuring the surface by the silicon

rubber.

7. (original) A heat developing apparatus according to Claims 1 or 2, wherein

the rotating body pair nips the heat developing sheet by the self weight load of the

rotating body, and the rotating body arranged above the rotating body pair can be moved in the

surface direction in which the axis centers of the rotating body pairs are connected.

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Please add the following new claim:

8. (new) The heat developing apparatus of claim 3, wherein a degree of change of the conveying direction increases between a first and a second of the rotating body pairs and between the second and a third of the rotating body pairs.

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AMENDMENTS TO THE DRAWINGS

Fig. 4 has been amended to indicate the heat developing apparatus 1.

Attachment: Replacement Sheet